

1. Receiving element, containing a bolt (2) that has an exterior surface (18) that is largely parallel to a longitudinal axis (20) and is in particular coaxial therewith and that can be introduced into a bore in a component preferably at least two components, characterized in that said bolt (2) comprises wear-resistant sintered material or contains such material, in that arranged at the forward end of said bolt (2) is a tip (4) made of metal, the end section (6) of which engages in a recess (8) of said bolt (2), and in that a direct connection between said end section (6) and said recess (8) exists in the connecting area provided at the forward end of said bolt (2).

2. Receiving element in accordance with claim 1, characterized in that said end section (6) of said tip (4) is joined in said recess (8) to said bolt (2) by means of an adhesive joint or shrink fit or press fit or clamp connection and/or in that the immediate connecting area between said end section (6) and said recess (8) extends axially across only a fraction of the entire length of said bolt (2).

3. Receiving element in accordance with claim 1 or 2, characterized in that a transition area (22) is provided between said forward section (10) of said tip (4) that projects out of said bolt (2) and said bolt (2), said forward part (10) having a maximum external diameter (14) that is smaller by a prespecified amount than the external diameter (16) of said bolt (2).

4. Receiving element in accordance with any of claims 1 through 3, characterized in that said end section (6) engaging in said recess (8) has an external diameter (26) that is smaller by a prespecified amount than the maximum external diameter (14) of said forward section (10) and/or in that provided between said forward section (10) and said end section (6) of said tip (4) is a stage (24) that is embodied as an axial stop with respect to said bolt (2).

5. Receiving element in accordance with any of claims 1 through 4, characterized in that said forward section (10) has an exterior surface (12) that tapers largely conically toward the free end with a prespecified takeout angle and/or in that said exterior surface of said transition area (22) has a takeout angle that is substantially greater than the takeout angle of said forward section (10).
6. Receiving element in accordance with any of claims 1 through 5, characterized in that said exterior diameter of said bolt (2) is prespecified in the range of 3 to 12 mm, preferably from 3.5 to 10 mm, and in particular from 4 to 8.5 mm.
7. Receiving element in accordance with any of claims 1 through 6, characterized in that at its other end said bolt (2) has a fastening body (30) that is an integral component of said bolt (2) and that comprises the same material as the latter or that alternatively is embodied as a separate fastening body comprising an insulating material.
8. Receiving element in accordance with claim 7, characterized in that said fastening body (30) has flange (36), the external diameter of which is larger than said external diameter (16) of said bolt (2).
9. Receiving element in accordance with claim 7 or 8, characterized in that said fastening body (30) has a connecting section (34) that engages in a second recess (32) of said bolt (2) and/or in that said connecting part (34) is joined directly to said bolt (2) by means of an adhesive joint or a shrink fit or a press fit or a clamp connection.
10. Receiving element in accordance with any of claims 1 through 9, characterized by use in a welding tool and/or welding apparatus, in particular a pressure welding tool.